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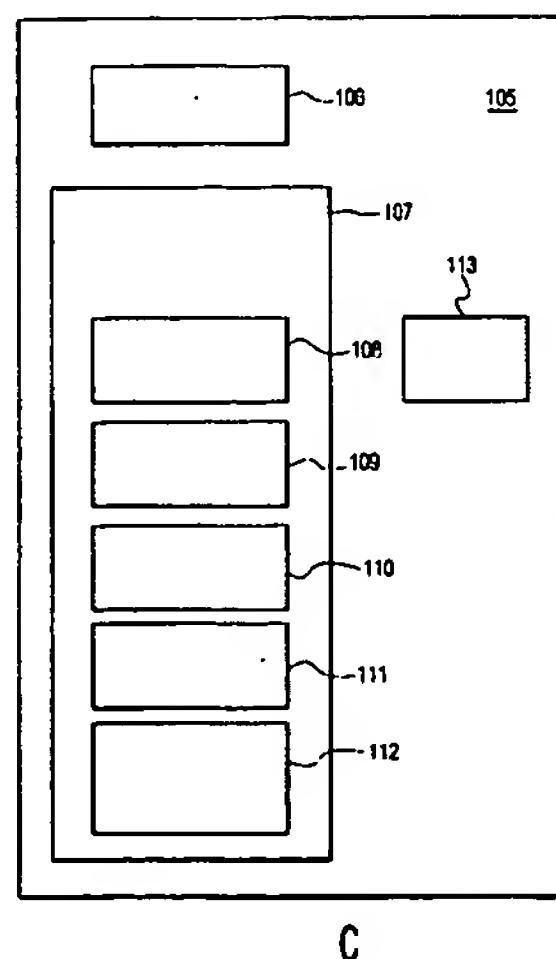
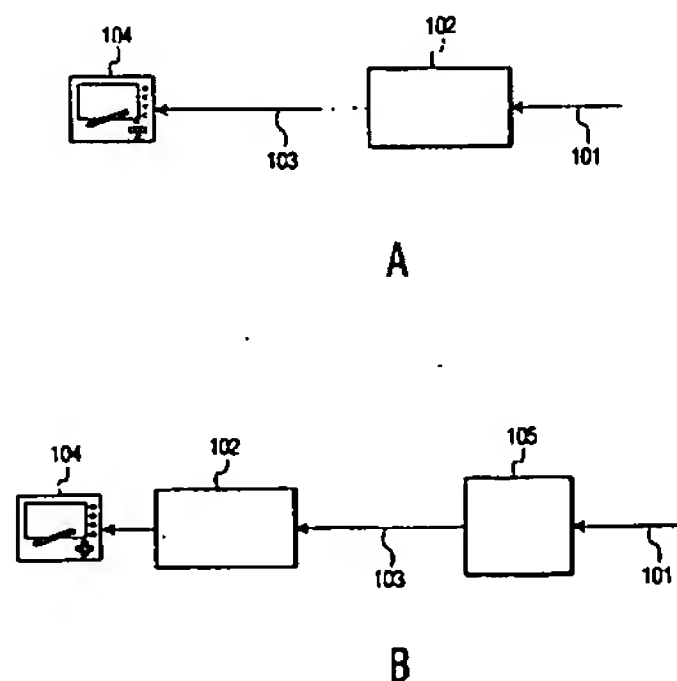
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(54) Title: SMART CLIPPER FOR MOBILE DISPLAYS



(57) Abstract: An apparatus and method for primary color correction and clipping is provided that is particularly suited for application in mobile displays. It is a combination of a brightness reduction, and a 'smart' clipping algorithm and is based on the perceptual attribute "colorfulness", in which images that are brighter seem to possess more color. In the smart clipping algorithm, a brightness reduction is followed by a gamut (primary) correction and then a smart clip is performed by "adding white" to the out-of-gamut pixels only. This reduces the saturation while it increases the brightness. That is, the saturation is decreased in favor of increased brightness, which gives similar colorfulness on a mobile display as on an EBU display. This smart clipping affects those colors that cannot be represented on the display.

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**Declarations under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE,

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